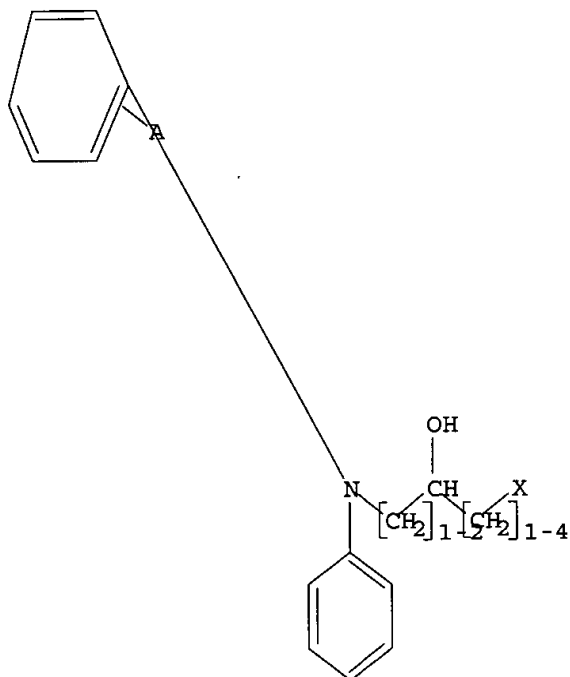


09/288,556

L12

STR



G1 H, Me, Et, n-Pr, i-Pr, n-Bu, i-Bu, s-Bu, t-Bu

Structure attributes must be viewed using STN Express query preparation.

=> s l12 sss full
FULL SEARCH INITIATED 13:37:59 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 461 TO ITERATE

100.0% PROCESSED 461 ITERATIONS
SEARCH TIME: 00.00.01

2 ANSWERS

L13 2 SEA SSS FUL L12

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
151.35	813.27

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-8.46

FILE 'CAPLUS' ENTERED AT 13:38:04 ON 05 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

09/288,556

The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 5 Sep 2003 VOL 139 ISS 11
FILE LAST UPDATED: 4 Sep 2003 (20030904/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l13

L14 2 L13

=> d 1-2 l13 ibib abs hitstr

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	813.69

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-8.46

FILE 'CAPLUS' ENTERED AT 13:38:31 ON 05 SEP 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 5 Sep 2003 VOL 139 ISS 11
FILE LAST UPDATED: 4 Sep 2003 (20030904/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l13

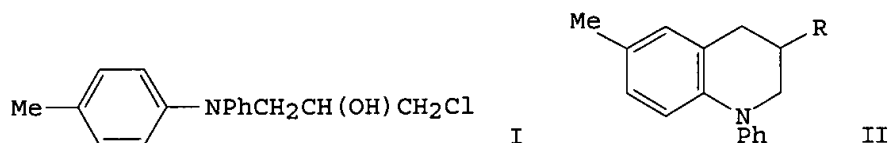
L15 2 L13

=> d l14 1-2 ibib abs hitstr

L14 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1976:446348 CAPLUS
DOCUMENT NUMBER: 85:46348
TITLE: 3-Chloro-2-hydroxypropyl derivatives of aromatic amines and their reaction products. XVII.

09/288,556

4-Methyldiphenylamine
AUTHOR(S): Kutkevicius, S.; Samarskis, E.
CORPORATE SOURCE: Kaunas. Politekh. Inst. im. Sneckusa, Kaunas, USSR
SOURCE: Lietuvos TSR Aukstuju Mokyklų Mokslo Darbai, Chemija
ir Chemine Technologija (1975), 17, 151-4
CODEN: LAMCAJ; ISSN: 0459-3391
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI

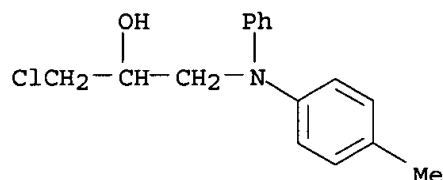


AB Addn. of epichlorohydrin to p-MeC₆H₄NHPh in AcOH 6 days at 70.degree. gave 80% I. A similar reaction 5 days at 150-5.degree. gave 75.4% II (R = OH) which was dehydrated by polyphosphoric acid to give 27% II (R = H). Acylation of II (R = OH) gave 50-3% II (R = AcO, BzO, p-NO₂C₆H₄CO₂).

IT 59836-08-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and cyclization of)

RN 59836-08-7 CAPLUS

CN 2-Propanol, 1-chloro-3-[(4-methylphenyl)phenylamino] - (9CI) (CA INDEX NAME)



L14 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1969:37343 CAPLUS

DOCUMENT NUMBER: 70:37343

TITLE: N-(.gamma.-Chloro-.beta.-hydroxylpropyl)arylamines and their reaction products. VI. N-Mono- and N,N-bis(.beta.,.gamma.-epoxypropyl)amines

AUTHOR(S): Kutkevicius, S.; Rutkauskas, S.

CORPORATE SOURCE: Kaunas. Politekh. Inst., Kaunas, USSR

SOURCE: Lietuvos TSR Aukstuju Mokyklų Mokslo Darbai, Chemija ir Chemine Technologija (1967), 8, 99-104
CODEN: LAMCAJ; ISSN: 0459-3391

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB Powd. NaOH (16 g.) was shaken with 26 g. Ph₂NCH₂CH(OH)CH₂Cl (I) in 50 cc. HCONMe₂ 10-20 min. with cooling, to give 82% N-(.beta.,.gamma.-epoxypropyl)diphenylamine (II), b₁-2 158-9.degree.. Similarly, 2-(.beta.,.gamma.-epoxypropyl)-2'-aminodiphenylamine (III), and N,N'-diphenyl-N,N'-bis(.beta.,.gamma.-epoxypropyl)-p-phenylenediamine (IV) was obtained. I (0.2 mole) in 0.6-1 mole HCONMe₂ was shaken with 0.8-1 mole powd. Na 10-15 min., the mixt. dild. with 20-30 cc. H₂O, heated at

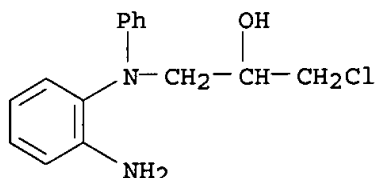
40-60.degree. 2-3 hrs. with stirring to give 73% Ph₂NCH₂CH(OH)CH₂NMe₂, m. 48-9.degree. (petroleum ether or alc.). Similarly the following ArNHCH₂CH(OH)CH₂NMe₂ were obtained (Ar, % yield and m.p. given): Ph, 62, 81-2.degree.; p-MeC₆H₄, 81, 71-2.degree.; 1-naphthyl, -, 81-2.degree.; o-PhNHC₆H₄, 67, 102-3.degree.. Similarly prepd. was N,N'-diphenyl-N,N'-bis(.gamma.-dimethylamino-.beta.-hydroxypropyl)-p-phenylenediamine, m. 129-31.degree.. Epichlorohydrin (V) 37 g. and 36.8 g. 2-aminodiphenylamine was kept 45 hrs., the mixt. was dissolved in amyl alc. and satd. with HCl to give 27.6 g. o-H₂NC₆H₄NPhCH₂CH(OH)CH₂Cl.cntdot.HCl (VI), m. 135-6.degree. (amyl alc.). VI (30 g.), 12 g. powd. NaOH, and 0.6 l. Et₂O was shaken and refluxed 3 hrs. to give 17.8 g. III, m. 79-80.degree. (Et₂O). p-PhNHC₆H₄NHPh (13 g.), 18.5 g. V, and 6 g. AcOH was heated at 60-5.degree. 48 hrs., the mixt. was shaken with 250 cc. H₂O and extd. with Et₂O. Powd. NaOH (20 g.) was added to the Et₂O layer and the mixt. was refluxed 2 hrs. to give 7.2 g. IV, m. 70-1.degree. (Et₂O). Similarly, 22.1 g. II, b₃-4 182-4.5.degree., was obtained from 37 g. V after 55 hrs. V (37 g.), 36.6 g. 4-MeC₆H₄NHPh, and 12 g. AcOH was heated at 60-3.degree. 50 hrs., the mixt. treated with H₂O and extd. with Et₂O, and the Et₂O was removed. The residue was dissolved in 180 cc. MeOH, 9.8 g. NaCN was added and the mixt. was heated 1 hr. at 60-4.degree. to give 36% p-MeC₆H₄NPhCH₂(OH)CH₂R (VII, R = CN) (VIII), m. 70-1.degree. (MeOH). Similarly, 26% p-[NCCH₂CH(OH)CH₂NPh]₂C₆H₄, m. 163-4.degree. (Et₂O), was obtained. VIII (1.3 g.), 7 cc. MeOH, 2 cc. H₂O, 0.4 g. NaOH, and 5 cc. 10% H₂O₂ was heated at 47-50.degree. 20 min. to give 42% VII (R = CONH₂), m. 134-5.degree. (MeOH). VIII (2.6 g.), 8 cc. alc., 1.6 g. NaOH, and 5 cc. H₂O was heated at 100-5.degree. 4 hrs. to give 53% VII (R = CO₂H), m. 79-80.degree. (alc.).

IT 21471-79-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 21471-79-4 CAPLUS

CN 2-Propanol, 1-[N-(o-aminophenyl)anilino]-3-chloro-, monohydrochloride
(8CI) (CA INDEX NAME)



● HCl

=>